

## WHAT IS CLAIMED IS:

1. An audio player which can exchange storage device to play audio files comprising:
  - a main body, which comprises a set of functional buttons on the surface thereof for operation, a USB socket, and a slot opening on the surface;
  - 5 a power supply, which is installed in the main body as a power source;
  - an exchangeable hard drive, which comprises a USB plug for download and storage audio files from a computer, a drive PCB, and a set of pins extended from the drive PCB on the surface thereof corresponding to the slot of the main body; and
  - a main PCB, which is installed inside the main body and comprises a set of golden fingers
  - 10 extended through the slot to the surface of the main body to contact the pins of the exchangeable hard drive and communicate with the drive PCB, a receiver circuit corresponding to the functional buttons, and further comprises:
    - a processing unit, which receives commands form the functional buttons via the receiver circuit, and accesses audio files in the exchangeable hard drive through a buffer;
    - 15 a decoding unit, which receives audio files from the processing unit to decode;
    - a D/A converter, which converts received decoded audio files from digital signals to analog signals; and
    - an amplifier, which amplifies received analog signals and transfers to an output unit.
2. An audio player according to the claim 1, which further comprises an output device to
- 20 connect to the output unit to play audio.
3. An audio player according to the claim 2, wherein the output unit is an earphone socket.
4. An audio player according to the claim 1, wherein the main PCB further comprises a power switch, which is set on the surface of the main body and connects to the power supply for operating power on/off.
- 25 5. An audio player according to the claim 1, wherein the power supply comprises a battery,

and the main body comprises a corresponding battery cover for the battery installing and replacing.

6. An audio player according to the claim 1, wherein the main body comprises a strap hole for a strap.

5 7. An audio player according to the claim 1, wherein the exchangeable hard drive comprises a LED to indicate status of operation.

8. An audio player according to the claim 1, wherein the functional buttons comprises a play button, a stop button, and two directional buttons.